

Appl. No. 09/642,749  
Suppl. Response and Amendment dated July 14, 2004

**Amendments to the Claims:**

This listing of claims will replace all prior versions and listings in the application:

**Listing of Claims:**

Claims 1-10 (cancelled)

Claim 11 (currently amended) ~~The mutant second protein kinase according to claim 23, wherein said first and said second protein kinases are mitogen activating protein (MAP) kinases.~~

An isolated or purified mutant of a naturally occurring mitogen activating protein (MAP) kinase, said mutant being selected from:

(a) a mutant extracellular-signal regulated kinase 2 (ERK2)

comprising the amino acid sequence of SEQ ID NO:2, wherein amino acid 105 is threonine or alanine; or

(b) a mutant Jun-N-terminal kinase 3 (JNK3) comprising amino acids 40-402 of SEQ ID NO:3, wherein amino acid 146 is threonine or alanine.

Claim 12 (cancelled)

Claim 13 (currently amended) The mutant ERK2 according to claim 11~~2~~, wherein amino acid 103 is leucine, amino acid 106 is histidine, amino acid 109 is glycine and amino acid 110 is alanine.

Claims 14-23 (cancelled)